

GHR SST Data Access Tutorial

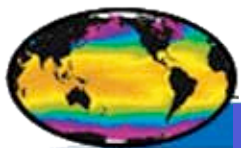
<http://ghrsst.nodc.noaa.gov>



GHR SST Data Access

How to Access GODAE High Resolution SST Products from the GDAC and LTSRF

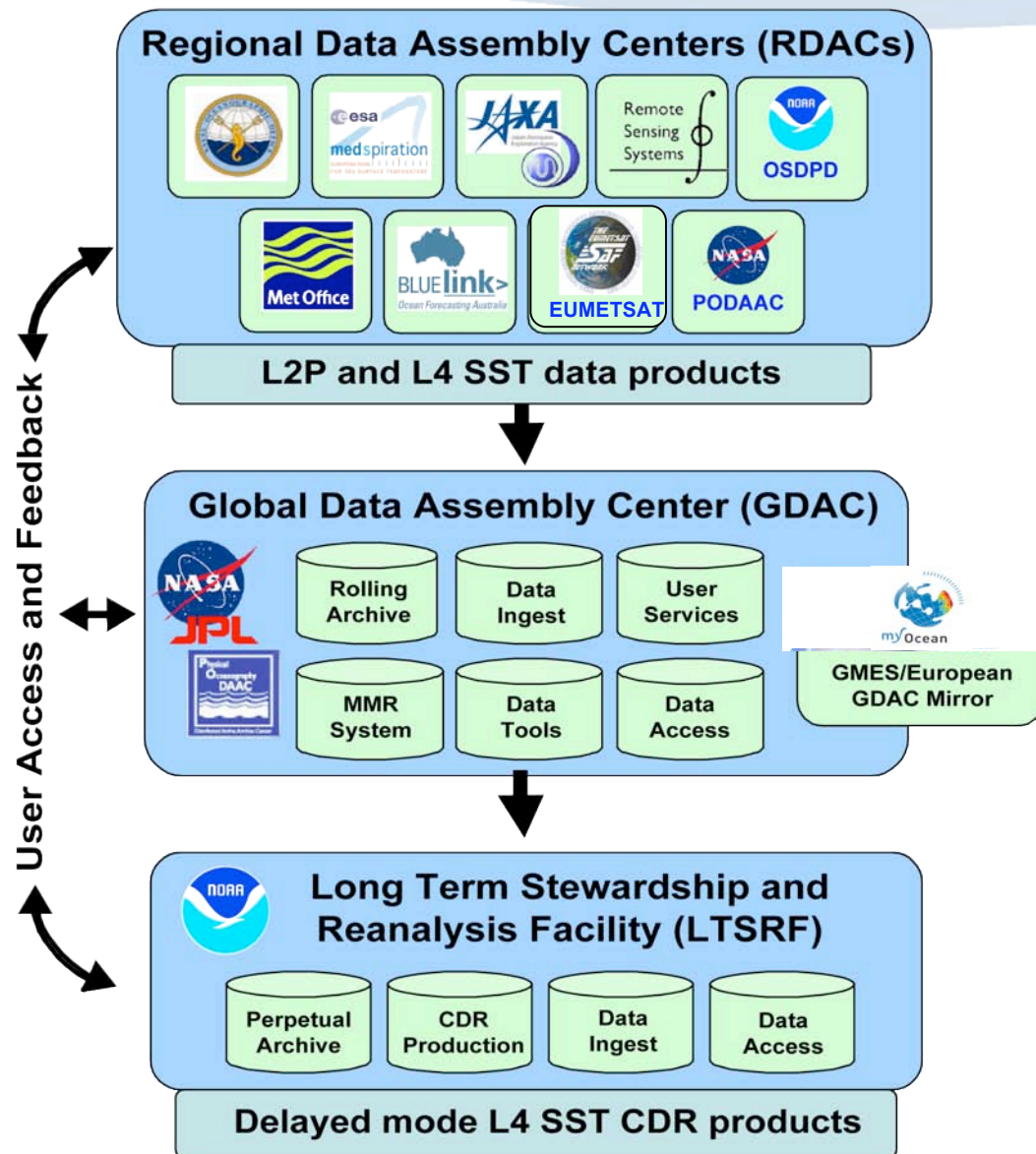
**Kenneth S. Casey, Ph.D.
Long Term Stewardship and Reanalysis Facility
NOAA National Oceanographic Data Center, USA
Updated: July 2007**



Regional/Global Task Sharing

GHRSSST Data Access Tutorial

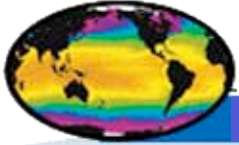
<http://ghrsst.nodc.noaa.gov>



GHRSSST data access is possible from all levels of the Regional/Global Task Sharing Framework.

This tutorial covers the basic data access mechanisms from the GDAC at NASA PO.DAAC and the LTSRF at NOAA NODC.

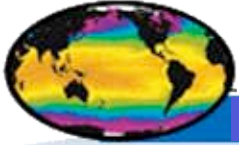
Individual data providers - the RDACs at the top of this framework, also provide their data in a variety of ways. Access to data from the RDACs is not discussed here.



Current Status



- **As of July 2007, GHRSSST provides integrated Level 2 Preprocessed (L2P) SST observations from the following sensors:**
 - AMSR-E, AVHRR-16, AVHRR-17, AVHRR-18 (GAC,LAC,HRPT), MODIS Aqua and Terra, SEVIRI, AATSR, TMI, GOES-11, and GOES-12
- **In addition, gap-free Level 4 (L4) SST products are available from the following analysis systems:**
 - OSTIA: global, daily, 5 km
 - Daily OI: global, daily, 25 km
 - Mediterranean: daily, 2.2 km



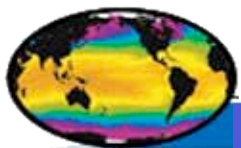
Current Status



- **All data files are in netCDF file format**
- **All data files contain COARDS/CF compliant file level metadata**
- **All data files have a corresponding DIF metadata record, and once in the LTSRF, FGDC metadata as well**

**All data are free and openly available
to everyone**

(only OSTIA requires use of a Crown copyright statement)



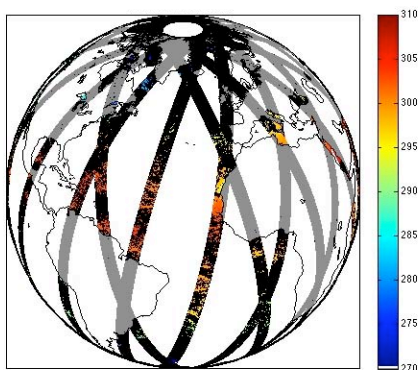
Example L2P and L4 Data

GHRSSST Data Access Tutorial

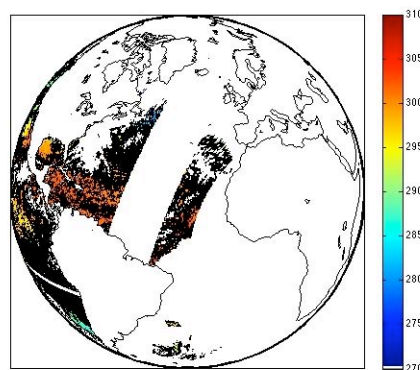
<http://ghrsst.nodc.noaa.gov>



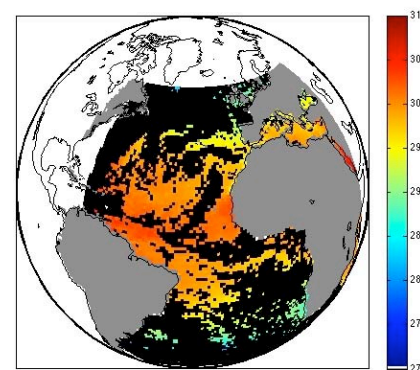
AATSR L2P



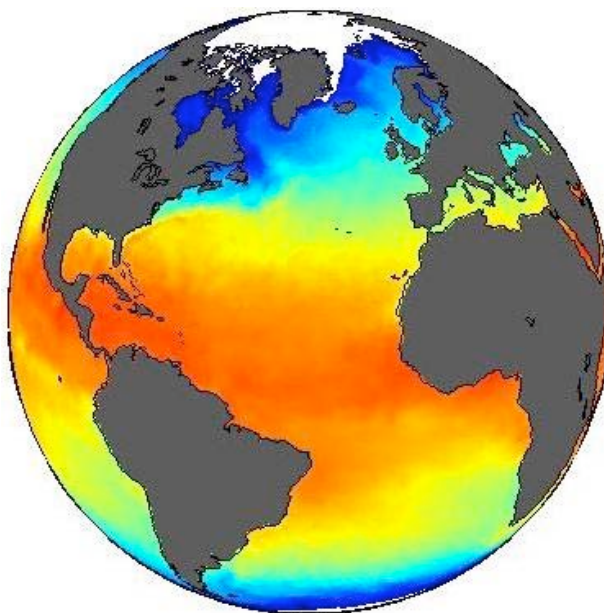
GOES-11 L2P



SEVIRI L2P

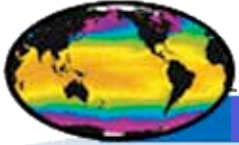


Shown above are example L2P images (each image may have been generated using several separate L2P files from the same day) and to the right is an example L4, blended, gap-free analysis product



OSTIA L4 - gap-free analysis product

(© Crown Copyright 2007, data supplied by the Met Office).



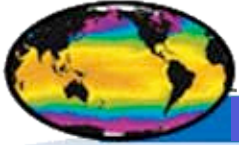
GHRSSST Access Overview

GHRSSST Data Access Tutorial

<http://ghrsst.nodc.noaa.gov>



- Due to the enormity of the task, GHRSSST data management is achieved through a partnership between the NASA Physical Oceanography Distributed Active Archive Center (PO.DAAC) and the NOAA National Oceanographic Data Center (NODC)
- PO.DAAC operates the GHRSSST Global Data Assembly Center (GDAC) and provides SST data within 30 days of observation
- NODC operates the GHRSSST Long Term Stewardship and Reanalysis Facility (LTSRF), where GHRSSST SST data older than 30 days are available in perpetuity
- GHRSSST is working toward making access to these data as seamless as possible across the two centers



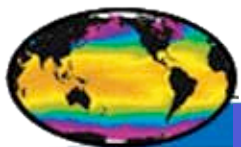
GHR SST Access Overview

GHR SST Data Access Tutorial

<http://ghrsst.nodc.noaa.gov>



- The GDAC will typically be the place you should go to begin searching for GHR SST data and tools
- However, if the data you are looking for are more than 30 days old, you can also begin your search at the LTSRF
- This tutorial will begin at the GDAC, and walk you through some of the basic search and access techniques
- After that, the tutorial will walk you through the search and access mechanisms available at the LTSRF



GDAC Access: Getting Started

GHR SST Data Access Tutorial

<http://ghrsst.nodc.noaa.gov>



GDAC Home Page

http://ghrsst.jpl.nasa.gov/

Search PO.DAAC

Jet Propulsion Laboratory
California Institute of Technology

+ View the NASA Portal

JPL HOME EARTH SOLAR SYSTEM STARS & GALAXIES TECHNOLOGY

GDAC
GLOBAL DATA ASSEMBLY CENTER

Physical Oceanography DAAC

Home
Data Access
Data Search
Documentation Links
GDAC Data Inventory
FAQ
What's New

GHR SST-PP
GHR SST Project Office

RDACs FORUM

BLUElink

AXA

medspiration

Mensea

MSST

LTSRF

GDAC

The Global Data Assembly Center:
Portal to The GODAE High Resolution Sea Surface Temperature Pilot Project

AMSRE SST (10/12/05-10/19/20)

AMSRE SST
AMSRE-E derived SSTs for the week of October 12-19 2005. Black values indicate missing values due to flagging of data.

L4 2.2km SST (10/12/05)

L4 2.2km SST
Optimally Interpolated Sea Surface Temperatures for October 12 using both infrared and microwave derived SSTs. Spatial resolution is 2.2km.

About the GHR SST-PP

The Global Ocean Data Assimilation has been established to give international focus and coordination to the development of a new generation of global, multi-sensor, high-resolution near realtime SST products. More>

Documents

GDAC Guide Documents more >

Project Reference Documents at GHR SST-PP more >

Data Access Tutorial

What's New!

Click here for GHR SST-PP announcements.

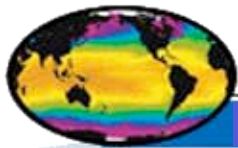
Welcome to the NEW GDAC Website!
Please browse our site & give us your feedback
ghrsst@podaac.jpl.nasa.gov

Applications Spotlight

A variety of applications are now using GHR SST-PP products and services more >

Frequently Asked Questions (FAQs)

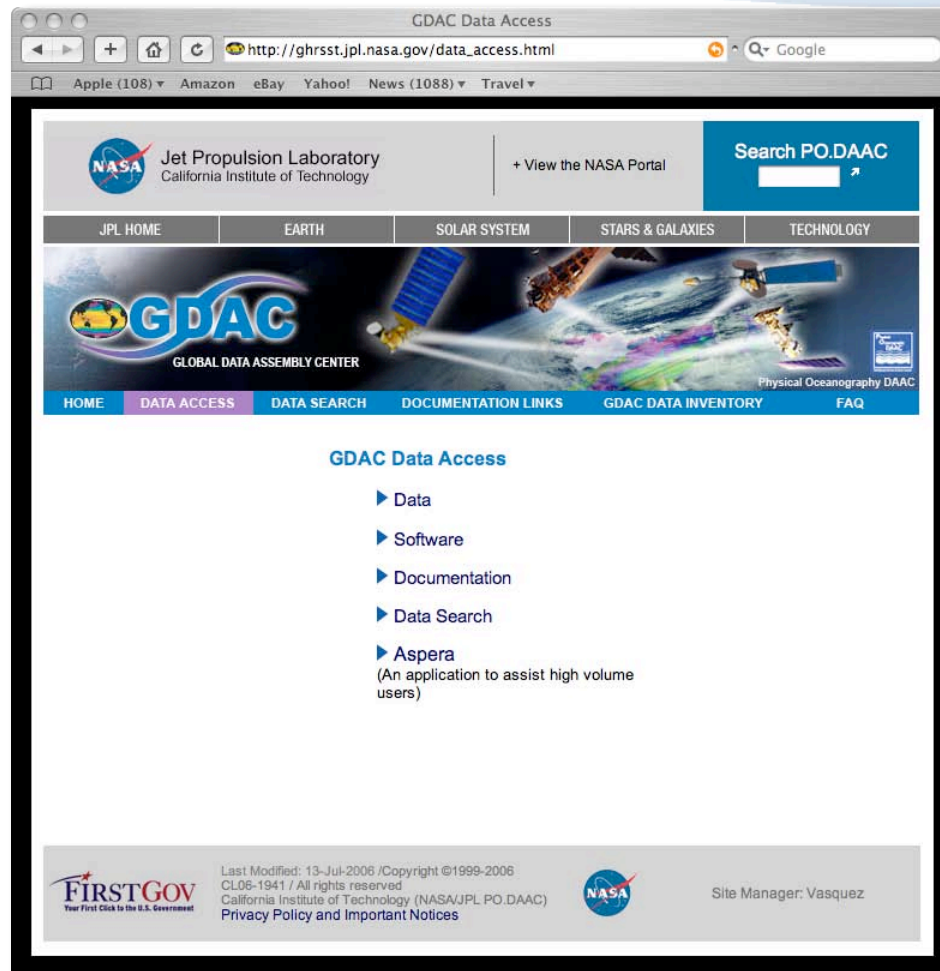
- Typically, to begin looking for GHR SST data, a user should start at the GDAC:
<http://ghrsst.jpl.nasa.gov>
- General information is available here
- Click on “Data Access” to access data and tools



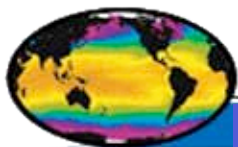
GDAC Access: Getting Data and Info

GHRSSST Data Access Tutorial

<http://ghrsst.nodc.noaa.gov>



- Here on the GDAC Data Access Page, clicking on “Data” will take you straight to the FTP directories, where you can access the data directly. If you are familiar with GHRSSST products and conventions, this is a good way to get right to the data you want
- Clicking on “Software” or “Documentation” will take you to example code (currently in C and IDL, with Matlab available soon) and documents describing GHRSSST products
- Clicking on “Data Search” will take you to the GHRSSST search tool



GDAC Access: Data Search

GHRSSST Data Access Tutorial

<http://ghrsst.jpl.nasa.gov>



GDAC Data Search

http://ghrsst.jpl.nasa.gov/data_search.html Google

Apple (108) Amazon eBay Yahoo! News (1090) Travel

JPL HOME EARTH SOLAR SYSTEM STARS & GALAXIES TECHNOLOGY

GDAC
GLOBAL DATA ASSEMBLY CENTER

HOME DATA ACCESS DATA SEARCH DOCUMENTATION LINKS GDAC DATA INVENTORY

Search the Master Metadata Repository (MMR) for L2P and L4 data file availability at the GDAC, local RDAC and Long-Term Archive locations.

MMR Search

* - Input is required.

Enter spatial geolocation as (-)xxx.xxx

Please select a region to search:

North Latitude*: 90.0
West Longitude*: -180.0
East Longitude*: 180.0
South Latitude*: -90.0

Reset (world)

Enter temporal bounds

Start Year: 2007 Start Month*: Mar Start Day*: 15 Start Hour: 00 Start Minute: 00
Stop Year: 2007 Stop Month*: Mar Stop Day*: 15 Stop Hour: 23 Stop Minute: 59

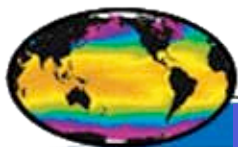
Sensor L2P/ L4 product: All RDAC: All

Search Results Format

☒ Overview (fast) (show links to related urfs.)
☐ Detailed (show urfs)

Submit

- Here on the GDAC Data Search Page, you can look for GHRSSST data by geographic region, time, by Sensor/Product Level, and by RDAC
- As an example, select 2007-Jan-13 as both start and stop dates, select AMSR-E as the Sensor, and select “Detailed” as the search results format to find all AMSR-E data from that date.
- Then click on “Submit”



GDAC Access: Data Search

GHRSSST Data Access Tutorial

<http://ghrsst.nodc.noaa.gov>



```
REMSS-L2P-amsr_l2b_v05_r24973.dat-v01.nc.gz
File name: 20070113-AMSRE-REMSS-L2P-amsr_l2b_v05_r24974.dat-
v01.nc
Location: ftp://ftp.misst.org/amsre/swath/nc/2007/20070113-AMSRE-REMSS-L2P-
amsr_l2b_v05_r24974.dat-v01.nc.gz
Location:
FTP server ftp://podaac.jpl.nasa.gov/pub/GHRSSST/data/L2P/AMSRE/REMSS/2007/013/20070113-AMSRE-
REMSS-L2P-amsr_l2b_v05_r24974.dat-v01.nc.gz
File name: 20070113-AMSRE-REMSS-L2P-amsr_l2b_v05_r24975.dat-
v01.nc
Location: ftp://ftp.misst.org/amsre/swath/nc/2007/20070113-AMSRE-REMSS-L2P-
amsr_l2b_v05_r24975.dat-v01.nc.gz
Location:
FTP server ftp://podaac.jpl.nasa.gov/pub/GHRSSST/data/L2P/AMSRE/REMSS/2007/013/20070113-AMSRE-
REMSS-L2P-amsr_l2b_v05_r24975.dat-v01.nc.gz
File name: 20070113-AMSRE-REMSS-L2P-amsr_l2b_v05_r24976.dat-
v01.nc
Location: ftp://ftp.misst.org/amsre/swath/nc/2007/20070113-AMSRE-REMSS-L2P-
amsr_l2b_v05_r24976.dat-v01.nc.gz
Location:
FTP server ftp://podaac.jpl.nasa.gov/pub/GHRSSST/data/L2P/AMSRE/REMSS/2007/013/20070113-AMSRE-
REMSS-L2P-amsr_l2b_v05_r24976.dat-v01.nc.gz
File name: 20070113-AMSRE-REMSS-L2P-amsr_l2b_v05_r24977.dat-
v01.nc
Location: ftp://ftp.misst.org/amsre/swath/nc/2007/20070113-AMSRE-REMSS-L2P-
amsr_l2b_v05_r24977.dat-v01.nc.gz
Location:
FTP server ftp://podaac.jpl.nasa.gov/pub/GHRSSST/data/L2P/AMSRE/REMSS/2007/013/20070113-AMSRE-
REMSS-L2P-amsr_l2b_v05_r24977.dat-v01.nc.gz
File name: 20070113-AMSRE-REMSS-L2P_GRIDDED_25-
amsre_20070113v5-v01.nc
Location: ftp://ftp.misst.org/amsre/gridded/nc/2007/20070113-AMSRE-REMSS-
L2P_GRIDDED_25-amsre_20070113v5-v01.nc.gz
Location:
FTP server ftp://podaac.jpl.nasa.gov/pub/GHRSSST/data/L2P_GRIDDED/AMSRE/REMSS/2007/013/20070113-
AMSRE-REMSS-L2P_GRIDDED_25-amsre_20070113v5-v01.nc.gz
File name: 20070113-AMSRE-REMSS-L2P-amsr_l2b_v05_r24978.dat-
v01.nc
Location: ftp://ftp.misst.org/amsre/swath/nc/2007/20070113-AMSRE-REMSS-L2P-
amsr_l2b_v05_r24978.dat-v01.nc.gz
Location:
FTP server ftp://podaac.jpl.nasa.gov/pub/GHRSSST/data/L2P/AMSRE/REMSS/2007/013/20070113-AMSRE-
REMSS-L2P-amsr_l2b_v05_r24978.dat-v01.nc.gz
File name: 20070113-AMSRE-REMSS-L2P-amsr_l2b_v05_r24979.dat-
v01.nc
Location: ftp://ftp.misst.org/amsre/swath/nc/2007/20070113-AMSRE-REMSS-L2P-
amsr_l2b_v05_r24979.dat-v01.nc.gz
```

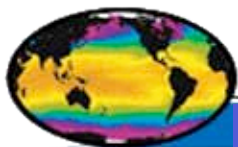
- Here are some of the results. Notice that FTP (and OPeNDAP links if available) are provided for the relevant data, and that the links point to the data both at the GDAC and the originating RDAC (if available).
- Eventually, if your search query returns data older than 30 days, then links to the LTSRF holdings will also be provided
- You can click on a file to download it, or you can use your favorite FTP client to access the data



<http://ghrsst.nodc.noaa.gov>



- If you know you want data that are more than 30 days old, or if you want to find out more about the stewardship and reanalysis activities in GHR SST, you can go straight to the LTSRF at <http://ghrsst.nodc.noaa.gov>
- Near the bottom of every page you will find the same set of informational links, and you can also click on the image on the left to return you to the LTSRF home page
- Click on “Access GHR SST Data” to get to the GHR SST LTSRF archives



LTSRF Access: Data Access

GHRSSST Data Access Tutorial

<http://ghrsst.nodc.noaa.gov>



GHRSSST-PP Long Term Stewardship and Reanalysis Facility (LTSRF) at NOAA NODC - Data Access

<http://ghrsst.nodc.noaa.gov/accessdata.html>

NOAA Satellite and Information Service
National Oceanographic Data Center

You are here: [NODC Home](#) > [Satellite Oceanography Group](#) > GHRSSST LTSRF

LTSRF
GHRSSST Long Term Stewardship and Reanalysis Facility

NOAA NODC

Data Access Is Here!

- HTTP: <http://data.nodc.noaa.gov/ghrsst/>
- FTP: <ftp://data.nodc.noaa.gov/pub/data.nodc/ghrsst/>
- OPeNDAP: <http://data.nodc.noaa.gov/cgi-bin/nph-dods/ghrsst/>
- NODC Ocean Archive System: <http://www.nodc.noaa.gov/cgi-bin/search/prod/accessionsView.pl/prefs> - You may search NODC's Ocean Archive System for GHRSSST data using criteria such as date, collecting institution (the RDAC that created the data), and geographic domain. To limit your searches to only GHRSSST data, be sure to select "Contributing projects" as one of your search criteria, and then select "GHRSSST-PP" from the menu.

More sophisticated access mechanisms will be made available in the coming months...

LTSRF Status	LTSRF News	Access GHRSSST Data
LTSRF Documents	LTSRF Home	SST-SI Intercomparisons

Kenneth.Casey@noaa.gov

SOG NODC NOAA CLASS AVHRR SST GODAE GAC RSMAS GHRSSST-PP MCSST NLSST SeaWiFS GOSTA NPOESS VIIRS OPeNDAP LAS HRPT LAC GAC HDF-SDS DMAC PO.DAAC LTSRF GDAC RDAC L2P L4 OSTIA

LTSRF Home

[Site Map](#) | [Access Data](#) | [Submit Data](#) | [Intended Use of the Data ?](#) | [Customer Service](#) |

Date last modified: Mon, 6-Nov-2006 13:56 UTC | Website problems? [Contact the webmaster](#)

[Privacy Policy](#) | [Disclaimer](#)

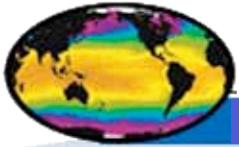
NOAA-NESDIS-National Oceanographic Data Center

This is an official website of the U.S. Government

On the “Access GHRSSST Data” page you will see a link directly to the four main ways you can get GHRSSST data from the NODC LTSRF:

- HTTP
- FTP
- OPeNDAP
- NODC Ocean Archive System

HTTP and FTP access mechanisms are very straightforward... you may click through to those directories and download data files directly. The next slide shows an example of what the L2P directory looks like...



LTSRF Access: HTTP and FTP

GHR SST Data Access Tutorial

<http://ghrsst.nodc.noaa.gov>



Index of /ghrsst/L2P

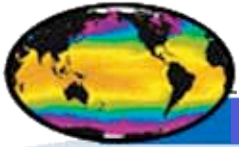
http://data.nodc.noaa.gov/ghrsst/L2P/

Apple .Mac Amazon eBay News (632) Yahoo! Apple (10)

Index of /ghrsst/L2P

Name	Last modified	Size	Description
Parent Directory		-	
AMSRE/	21-Sep-2006 18:26	-	
ATS_NR_2P/	21-Sep-2006 18:26	-	
AVHRR16_G/	21-Sep-2006 18:26	-	
AVHRR16_L/	21-Sep-2006 18:26	-	
AVHRR17_G/	21-Sep-2006 18:27	-	
AVHRR17_L/	21-Sep-2006 18:43	-	
AVHRR18_G/	21-Sep-2006 18:34	-	
AVHRR18_L/	21-Sep-2006 19:00	-	
MODIS_A/	21-Sep-2006 18:44	-	
MODIS_T/	11-Nov-2006 08:00	-	
NAR16_SST/	21-Sep-2006 18:39	-	
NAR17_SST/	21-Sep-2006 18:32	-	
NAR18_SST/	21-Sep-2006 18:54	-	
SEVIRI_SST/	21-Sep-2006 19:02	-	
TMI/	21-Sep-2006 18:35	-	

- Here is the example GHR SST L2P directory structure as seen using HTTP. Up one level higher in the parent directory at <http://data.nodc.noaa.gov/ghrsst> you can also see the L2P_GRDIDED and L4 directories. Note that when additional data streams enter the LTSRF, additional directories will be shown.
- The FTP directory structure is identical and can be examined using your browser or favorite ftp client. Just point them at <ftp://data.nodc.noaa.gov/pub/data.nodc/ghrsst>.



LTSRF Access: OPeNDAP

GHRSSST Data Access Tutorial

<http://ghrsst.nodc.noaa.gov>

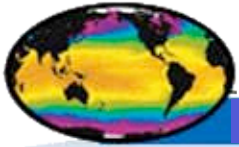


OPeNDAP Server Index of /ghrsst/L4/MED/EUR/2006

http://data.nodc.noaa.gov/cgi-bin/nph-dods/ghrsst

Name	Last modified	Size	Description
Parent Directory		-	
001/	28-Sep-2006 16:51	-	
002/	28-Sep-2006 16:33	-	
003/	28-Sep-2006 16:33	-	
004/	28-Sep-2006 16:33	-	
005/	28-Sep-2006 16:33	-	
006/	28-Sep-2006 16:25	-	
007/	28-Sep-2006 16:33	-	
008/	28-Sep-2006 16:25	-	
009/	28-Sep-2006 16:25	-	
010/	28-Sep-2006 16:33	-	
011/	28-Sep-2006 16:33	-	
012/	28-Sep-2006 16:33	-	
013/	28-Sep-2006 16:33	-	
014/	28-Sep-2006 16:33	-	
015/	28-Sep-2006 16:26	-	

- The OPeNDAP structure is also identical, but it has a different base URL:
<http://data.nodc.noaa.gov/cgi-bin/nph-dods/ghrsst>
- To the left is what one example L4 product looks like in the OPeNDAP directory
- The next several slides will demonstrate how to select a particular file and look at its contents using OPeNDAP and your web browser
- From the listing for L4 MED (Mediterranean area) data from the EUR (European) RDAC, select day 304...



LTSRF Access: OPeNDAP

GHRSSST Data Access Tutorial

<http://ghrsst.nodc.noaa.gov>



OPeNDAP Server Index of /ghrsst/L4/MED/EUR/2006/304

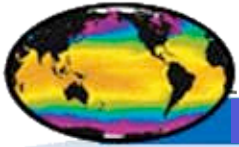
http://data.nodc.noaa.gov/cgi-bin/nph-dods/ghrsst/L4/M~ Google

Apple .Mac Amazon eBay News (632) Yahoo! Apple (10)

OPeNDAP Server Index of /ghrsst/L4/MED/EUR/2006/304

Name	Last modified	Size	Description
Parent Directory	-	-	-
20061031-EUR-L4UHFnd-MED-v01.nc.bz2	31-Oct-2006 20:57	1.0M	
FGDC-20061031-EUR-L4UHFnd-MED-v01.xml	02-Dec-2006 05:22	26K	
FR-20061031-EUR-L4UHFnd-MED-v01.xml	31-Oct-2006 20:57	2.0K	

- After selecting day 304, you'll see the files on the left
 - The *.nc.bz2 is the bzip2-compressed netCDF data file
 - The FDGC*.xml file is the corresponding FGDC metadata record
 - The FR*.xml file is the original DIF-formatted metadata record (which contains much less information than the FGDC record)
- Now click on the *.nc.bz2 file to open the OPeNDAP web form...



LTSRF Access: OPeNDAP

GHRSSST Data Access Tutorial

<http://ghrsst.nodc.noaa.gov>



OPeNDAP Server Dataset Query Form

http://data.nodc.noaa.gov/cgi-bin/nph-dods/ghrsst/L4/MED/EUR/ Google

Apple .Mac Amazon eBay News (632) Yahoo! Apple (10)

OPeNDAP Server Dataset Access Form

Action:

Data URL:

Global Attributes:

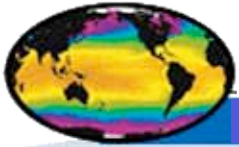
Variables: ☐ **time:** Array of 32 bit Integers [time = 0..0]
time:
long_name: "reference time of sst field"
units: "seconds since 1981-01-01 00:00:00"

☐ **skin_time:** Array of 32 bit Integers [skin_time = 0..11]
skin_time:
long_name: "time of skin sst field"
units: "seconds since 1981-01-01 00:00:00"

☐ **lon:** Array of 32 bit Reals [lon = 0..2749]
lon:
long_name: "longitude"
units: "degrees_east"

Here is the OPeNDAP web form, which shows the attributes and variables contained in the GHRSSST netCDF files. You can select any of the parameters and then click on "Get ASCII" to see the data in plain text - you would not want to do this to download significant amounts of data but it can be useful for quickly browsing some of the contents.

There is one more way to search for and access GHRSSST data at the LTSRF...



LTSRF Access: OAS

GHR SST Data Access Tutorial

<http://ghrsst.nodc.noaa.gov>



prod Ocean Archive System: Search Accessions

<http://www.nodc.noaa.gov/cgi-bin/search/prod/accessionsView> Google

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Ocean Archive System: Search Accessions

Accessions People Projects Institutions Platforms Seenames Datatypes
Instruments Observations

Preferences Search

Start date: > 20061014 YYYYMMDD, YYYY/MM/DD ...

Instrument types: irradiance detector
AATSR
AATSR-MET
AATSR-NR
accelerometer
acoustic sensor
AIRS
AMSR
AMSR-E

Contributing projects: FRESHWATER SWITCHYARD OF THE ARCTIC OCEAN
FRONTALIS
FRONTS
GAK1
GASEXII
GATE
GCRP
GENERAL FISHERIES RESEARCH
GEP&CO
GHR SST-PP

sorted by: start_date

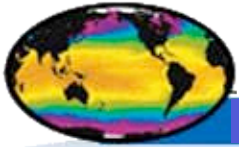
Search Reset Clear

Note: The above archive system searches our original datasets, not individual points or profiles. If you want to search and retrieve ocean profiles, your better option may be [WODSelect](#) (the NODC World Ocean Database Select and Search system).

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- Here is the general NODC Ocean Archive System (OAS), which you can use to find GHR SST datasets
- Following the link below, you can then select various fields to search on... to limit the searches to only GHR SST data, make sure you set Contributing Projects equal to "GHR SST-PP"
- The example here further limits the search to only GHR SST AATSR data (use instrument type = "AATSR-NR") since 14 October 2006.
- Click on "search"...

<http://www.nodc.noaa.gov/cgi-bin/search/prod/accessionsView.pl/pref>



LTSRF Access: OAS

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prod Ocean Archive System: Accessions Search Results: page: 1 of 1

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Ocean Archive System: Accessions Search Results: page: 1 of 1

Accessions People Projects Institutions Platforms Seenames Datatypes
Instruments Observations

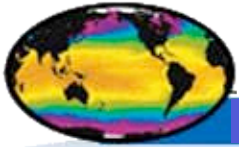
Preferences Search Results

Query returned:
18 records
Result page: 1

	NODC Accession No.	Title	Datatypes	Sea areas	Contributing projects
details	0010945	ENVISAT AATSR full resolution dual-view geolocated L2 swath SSTskin data set in GHR SST-PP L2P format for 2006-10-15 (NODC Accession 0010945)	SEA SURFACE TEMPERATURE	World-Wide Distribution	GHR SST-PP
details	0010962	ENVISAT AATSR full resolution dual-view geolocated L2 swath SSTskin data set in GHR SST-PP L2P format for 2006-10-16 (NODC Accession 0010962)	SEA SURFACE TEMPERATURE	World-Wide Distribution	GHR SST-PP
		ENVISAT AATSR full			

Here are the results of that search... when this example was generated, 18 records (each record consists of all of the files from a given RDAC, for a given sensor, on a given day) matched the search criteria.

You can click on “details” for more metadata information or on the accession number to go right to the archive directory if you wish to access the data



LTSRF Access: OAS

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prod Ocean Archive System: Search Accessions Preferences:

<http://www.nodc.noaa.gov/cgi-bin/search/prod/accession> Google

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You are here: [NODC Home](#) > [Access Data](#) > Accessions Preferences

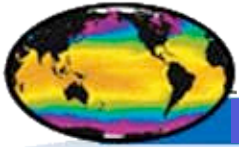
Ocean Archive System: Search Accessions Preferences:

Accessions People Projects Institutions Platforms Seenames Datatypes
Instruments Observations

Preferences Search

<input type="checkbox"/> NODC Accession No.	<input checked="" type="checkbox"/> West boundary	<input type="checkbox"/> Platforms
<input type="checkbox"/> Title	<input checked="" type="checkbox"/> East boundary	
<input type="checkbox"/> Abstract	<input checked="" type="checkbox"/> North boundary	
<input type="checkbox"/> Submitted by	<input checked="" type="checkbox"/> South boundary	
<input type="checkbox"/> Submitting Institution	<input type="checkbox"/> Size in Megabytes	
<input type="checkbox"/> Collecting Institutions	<input type="checkbox"/> Datatypes	
<input type="checkbox"/> Date received	<input type="checkbox"/> Observation types	
<input type="checkbox"/> Start date	<input type="checkbox"/> Instrument types	
<input type="checkbox"/> End date	<input type="checkbox"/> Sea areas	
<input type="checkbox"/> Availability date	<input checked="" type="checkbox"/> Contributing projects	

- **Important note:** the OAS geographic search capability is counter-intuitive, and works basically opposite to how you might expect
- To use geographic searches, set your preferences to include the four boundary elements, and again remember to set Contributing Projects equal to "GHR SST-PP"
- Click on "Continue" at the bottom of the page (not shown here)



LTSRF Access: OAS

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Ocean Archive System: Search Accessions

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Instruments Observations

Preferences Search

West boundary:	< : -144	Must be decimal degrees. Help
East boundary:	> : -156	Must be decimal degrees. Help
North boundary:	> : 58	Must be decimal degrees. Help
South boundary:	< : 64	Must be decimal degrees. Help
Contributing projects:	= :	GHRSSST-PP GLOBEC GLOBEC/OREGON GLODAP GMAQS GMEI GOALS GODAR GOM ENDANGERED SPECIES GOMEX

sorted by: start_date

Search Reset Clear

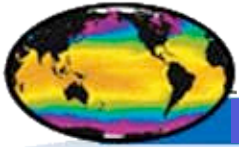
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- As an example, search for GHRSSST data that include Cook Inlet, Alaska. A box that bounds this region spans 58 to 64° North, and -156 to -144° West (Remember West longitudes and South latitudes are negative).
- In most search tools, you'd simply use 58 as South, 64 as North, -156 as West, and -144 as the East Boundary
- HOWEVER, the OAS is different. See how this example is implemented in the image on the left. It would take several pages to try to explain this in words... so follow this example. At the time this presentation was created, 2911 records were returned.



GHR SST Data Access

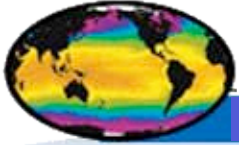
GHR SST Data Access Tutorial

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We hope this simple tutorial helps, but please remember...

- There are many people ready to assist you - at the RDACs, at the GDAC, and at the LTSRF. Don't hesitate to call or email!**
- More sophisticated access and browse mechanisms exist at many RDACs (for example, Live Access Servers) and are being developed for the GDAC and LTSRF. This presentation is intended to focus only on the basic GDAC and LTSRF access techniques like FTP, OPeNDAP, and the Ocean Archive System (OAS).**



GHRSSST Data Access Tutorial

<http://ghrsst.nodc.noaa.gov>



For More Information:

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<http://ghrsst.nodc.noaa.gov>